

SN 10/723,073
Docket No. S-100,587
In Response to Office Action dated June 30, 2005

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An identifying coding apparatus employing passive modulated reflectance technology comprising:

a base station emitting a RF signal;

a tag, located remotely from said base station, ~~consisting essentially of~~ including:

a substrate;

at least one antenna; and,

a network, consisting only of passive components, connected to said antenna, said passive components selected from the group consisting of resistors, capacitors, inductors, and connecting conductors formed by printing said passive components onto said substrate, where said network is configured to reflect back to said base station the RF signal modulated to be indicative of characteristics related to said tag.

2. (cancelled)

3. (original) The identifying coding apparatus as described in Claim 1, wherein said tag is configured as a label to be applied to an item of manufacture.

4. (original) The identifying coding apparatus as described in Claim 3, wherein said label is situated inside a pneumatic tire, and contains a pressure sensor, a temperature sensor and a tire tread wear sensor.

5. (previously presented) The identifying coding apparatus as described in Claim 1, wherein said substrate is flexible.

6. (cancelled)

7. (original) The identifying coding apparatus as described in Claim 5, wherein said tag is configured as a label to be applied to an item of manufacture.

8. (original) The identifying coding apparatus as described in Claim 5, wherein said label is situated inside a pneumatic tire, and contains a pressure sensor, a temperature sensor and a tire tread wear sensor.

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9. (previously presented) The identifying coding apparatus as described in Claim 1, wherein said network is configured to enable said reflected modulated signal to determine the location of said tag.

10. (previously presented) The identifying coding apparatus as described in Claim 1, wherein said network is configured to enable said reflected modulated signal to identify an entity to which said tag is associated.

11. (original) The identifying coding apparatus as described in Claim 1, further comprising means for disabling operation of said tag.

12. (original) The identifying coding apparatus as described in Claim 11, wherein said means for disabling comprises a fusible link on said tag that opens upon receipt by said tag of a particular RF signal from said base station.

13. (previously presented) The identifying coding apparatus as described in Claim 11, wherein said means for disabling comprises said substrate is configured to enable said tag to be broken apart.

14. (previously presented) The identifying coding apparatus as described in Claim 1, further comprising a tab that when torn off said tag affects said modulated reflected signal is such a way as to indicate a preselected event.

15. (previously presented) The identifying coding apparatus as described in Claim 1, wherein said network is configured to obtain a binary code in said modulated reflected signal that identifies the particular user of the tag.

16. (previously presented) The identifying coding apparatus as described in Claim 15, wherein said at least one antenna comprises two antennas, a first of said two antennas being out of phase with a second of said two antennas to induce said binary code in said modulated reflected signal.

17. (previously presented) The identifying coding apparatus as described in Claim 15, wherein said network includes time-delay circuits comprising combinations of inductances and capacitances to induce said binary code in said modulated reflected signal.

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18. (previously presented) The identifying coding apparatus as described in Claim 15, wherein said network includes varying impedances connected to said at least one antenna to induce said binary code in said modulated reflected signal.